

# 27ST220L



Security Systems

EN

Instruction Manual  
Monitor

# BOSCH

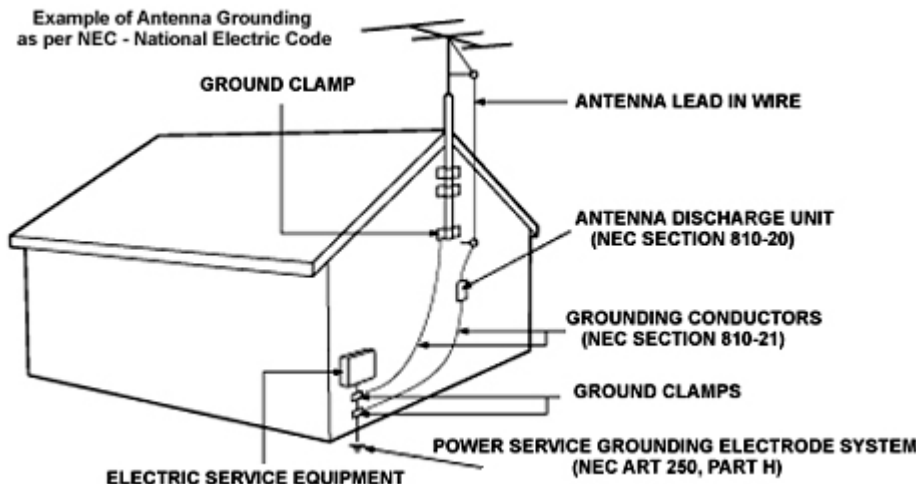
# SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 6B. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
  - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspiciously fall from the top of the set and cause product damage and/or personal injury.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.  
Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the masts and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**Note to the CATV system installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



## INTRODUCTION

### Philips Institutional TV Software

Your Philips Institutional Television can be configured to operate in either "Consumer" or "Commercial" operational modes.

**Commercial Mode:** Your Philips Institutional Television is configured at the Factory to operate in Commercial mode. When the television is in Commercial mode, access to its operation from its front panel controls or from a guest-mode remote can be limited, depending upon the settings of the Institutional TV features. For examples, the unit's front panel controls can be "locked-out" (rendered inoperable), only certain channels can be selected, and/or the volume can be limited to a given range.

**Consumer Mode:** When in the Consumer mode, the unit operates as a standard TV, bypassing the Institutional Television feature set, thus allowing normal initial power ON, channel selection, and volume control (as well as a variety of selectable Menu features). When the TV is in Consumer mode, the included remote, model RC2524BK can access the Consumer-mode Main Menu, and configure the television to the full extent offered in this mode.

**Identifying the Operational Mode:** To identify the television's operational mode, a system 7 (commercial setup mode) master setup remote (RC2573GR, optional accessory) must be used. With the RC2573GR *in setup mode* (press TV SETUP), press **Recall**. The following information will appear on-screen:

| STATUS ITEM                  | STATUS DATA                     | MEANING                                                         |
|------------------------------|---------------------------------|-----------------------------------------------------------------|
| SYSTEM STATUS (LO1ITV-US4PV) | <i>n/a</i>                      | Information title                                               |
| MODE                         | COMMERCIAL / CONSUMER           | Operational mode                                                |
| CHANNEL                      | CHANNEL, INPUT (CHANNEL, INPUT) | Currently-tuned channel                                         |
| DCM                          | OFF / ON                        | Data communications module offline / online                     |
| CODES                        | 209 222 1 33                    | Internal data for factory / service use.                        |
| SIGNAL                       | TUNED / NOT TUNED               | Signal present / absent                                         |
| OP HRS                       | 0031h                           | Number of cumulative hours unit has been operated (hexadecimal) |
| ERRORS                       | 0 0 0 0 0                       | Internal data for factory / service use.                        |
| VERSION                      | 3.3                             | Television software version.                                    |

**Changing Operational Modes:** To change the television's mode between Consumer and Commercial modes, a system 7 (commercial setup mode) master setup remote must be used. With the RC2573GR *in setup mode* (press TV SETUP), enter the following keystroke sequence: **0 2 4 9 9 5 Menu**. Only the RC2573GR, when it is in setup mode can change the television's mode between Consumer and Commercial, and provide complete access to the television's Institutional Features. The RC2573GR can be set to operate in either its master setup remote mode, or in guest-mode. The RC2573GR's guest mode facilitates testing the desired Institutional / Commercial configuration.

**ITV MENU ITEMS & AVAILABILITY IN CONSUMER & COMMERCIAL MODES (MODELS PCW227S, PCW227C)**

The following table summarizes the Commercial and Consumer menu items available on your Philips Institutional television. The functions of these menu items will be discussed in greater detail later in this booklet. Menu items denoted with a ">" invoke sub-menus, which will also be discussed later in this booklet. The column labeled *CONSUMER* indicates the Main Menu items that are available when the television is in Consumer mode, and *Menu* is pressed on a guest-mode remote (or RC2573GR master setup remote in guest mode). The column labeled *COMMERCIAL* indicates the Setup Menu items available with the RC2573GR master setup remote **whenever the setup remote is in setup mode**.

| MENU ITEM           | SETTINGS / OPTIONS                             | COMMERCIAL | CONSUMER  |
|---------------------|------------------------------------------------|------------|-----------|
| MENU TITLE          | SETUP MENU / MAIN MENU                         | SETUP MENU | MAIN MENU |
| LANGUAGE            | ENGLISH/ESPAÑOL/FRANÇAIS                       | X          | X         |
| CHANNEL INSTALL     | >                                              | X          | X         |
| CABLE TUNING        | ON/OFF                                         | X          | X         |
| BRIGHTNESS          | ---- ---- 0 - 63                               | X          | X         |
| COLOR               | ---- ---- 0 - 63                               | X          | X         |
| CONTRAST            | ---- ---- 0 - 63                               | X          | X         |
| SHARPNESS           | ---- ---- 0 - 63                               | X          | X         |
| TINT                | ---- ---- -31 - +31                            | X          | X         |
| NOISE REDUCTION     | ON/OFF                                         | X          | X         |
| AVL                 | ON / OFF                                       | X          | X         |
| VOLUME BAR          | ON / OFF                                       | X          | X         |
| MIN VOLUME *        | ---- ---- 0 - 63                               | X          |           |
| MAX VOLUME *        | ---- ---- 0 - 63                               | X          |           |
| SWITCH ON VOLUME *  | ---- ---- 0 - 63 / STANDARD                    | X          |           |
| SWITCH ON CHANNEL * | Ch. 1-125 / FRONT / AUX / S-VIDEO / STANDARD   | X          |           |
| POWER ON *          | STANDARD / FORCED                              | X          |           |
| CHANNEL DISPLAY *   | NUMBER / LABEL / ALL / NONE                    | X          |           |
| KEYBOARD LOCK *     | ON/OFF                                         | X          |           |
| ESP *               | 1-99 / OFF                                     | X          |           |
| AUDIO/VIDEO MUTE    | OFF / BLACK / BLUE                             | X          | X         |
| EXT AUD / VID OUT   | ON / OFF                                       | X          | X         |
| WELCOME MESSAGE *   | >                                              | X          |           |
| CHANNEL GUIDE *     | POWER ON/OFF/ON                                | X          |           |
| REMINDER            | ON / OFF                                       | X          | X         |
| 3 DIGIT ENTRY *     | ON / OFF                                       | X          |           |
| A/CH A/V SWITCH *   | ON / OFF                                       | X          |           |
| CC                  | OFF / CC-1 / CC-2 / CC ON MUTE                 | X          | X         |
| SAVE CC *           | ON / OFF                                       | X          |           |
| V-CHIP MENU ITEM *  | ON / OFF                                       | X          |           |
| SAVE V-CHIP *       | ON / OFF                                       | X          |           |
| V-CHIP SETUP        | >                                              | X          | X         |
| SLEEPTIMER          | OFF / 15 / 30 / 45 / 60 / 90 / 120 / 180 / 240 | X          | X         |
| SECURITY *          | STANDARD / HIGH                                | X          |           |
| EXIT                | >                                              | X          | X         |

\* COMMERCIAL FEATURE

### ITV Menu Items & Availability In Commercial Mode (Features Menu)

The following menu is available on your Philips Institutional television when it is in Commercial mode. The Features Menu items are limited to the following when pressing **Menu** on a guest-mode remote (or RC2573GR master setup remote in guest mode), or when pressing the front panel keyboard's VOLUME + and VOLUME - simultaneously (provided the television's front panel keyboard has not been locked out, see KEYBOARD LOCK).

| FEATURES MENU |                                |
|---------------|--------------------------------|
| CC            | OFF/CC-1/CC-2/CC ON MUTE       |
| SLEEPTIMER    | OFF/15/30/45/60/90/120/180/240 |
| EXIT          | >                              |

#### Notes:

✓ **Regardless of whether the television is in Consumer or Commercial mode, if you press *Menu* on an RC2573GR master setup remote when the setup remote is in setup mode, the television's SETUP MENU described earlier will appear**

✓ Certain features that are unique to commercial setup, such as POWER ON FORCED and KEYBOARD LOCK will **remain in effect immediately after the television is placed in Consumer mode IF THE TELEVISION IS NOT FIRST POWERED OFF**. Such features are denoted in with a "\*" in the menu item summary and descriptions.

✓ The limited Features Menu appears when the television is in Commercial mode and a guest remote (or setup remote in guest mode) **Menu** button is pressed, or when the television's front panel keyboard VOLUME - and VOLUME + are pressed simultaneously (provided the television's front panel keyboard is not locked out, see KEYBOARD LOCK).

### Front Panel Controls\*

Refer also to the sections in this documentation regarding the use of the front panel controls, specifically front keyboard lock-out\*.

The 27ST220L front panel consists of power on/off, volume, and channel controls. Channel - and Channel + normally change the television's channel or input to any of the channels or inputs currently in the Channel Ring (see *Channel Ring*). Volume + and Volume - normally control the television's audio volume. However, simultaneously pressing Volume + and Volume - invokes a menu. This will be either the Features Menu (see *Features Menu*, if the television is in Commercial Mode, or the Main Menu, if the television is in Consumer Mode. Once either menu is active, Channel + and Channel - navigate vertically to select a menu item, and Volume + and Volume - change the currently-selected menu item.

**\* NOTE: FRONT PANEL CONTROLS ARE INOPERATIVE IF THE FRONT KEYBOARD HAS BEEN LOCKED OUT. SEE *FRONT KEYBOARD LOCKOUT*.**

## HOW TO USE THE ON-SCREEN MENU

This section explains the Philips Institutional Television's menu items. As described previously, the availability of each item depends upon the television's current operational mode (Consumer or Commercial) and the type of remote control command (guest or setup) issued.

**LANGUAGE**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

An on-screen LANGUAGE option is available. You may set the TV's onscreen menu to appear in either English, French, or Spanish text. With the Main Menu onscreen press the Menu button repeatedly, or use the Cursor (s) Up and Down (t) buttons, to select LANGUAGE with the TV's highlight control bar. Press the Cursor Right (+>) or Left (<-) button on the remote to select English, French (FRANCAIS), or Spanish (ESPANOL). Text in the onscreen Menu will appear in the selected language. Remember, the Language control only makes the TV's onscreen Menu items appear in French or Spanish text. It does not change the language of other onscreen text features, such as Closed Captioning.

**CHANNEL INSTALL**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

|                      |                                  |
|----------------------|----------------------------------|
| CHANNEL INSTALLATION |                                  |
| CHANNEL              | FRONT / AUX / SVIDEO / 1 - 125   |
| CHANNEL RING         | SAVED / DELETED                  |
| INPUT                | (ANTENNA) / FRONT / AUX / SVIDEO |
| LABEL                | (-----)                          |
| VIDEO BLANK          | OFF / ON                         |
| AUDIO BLANK          | OFF / ON                         |
| AUTO PROGRAM         | >                                |
| EXIT                 | >                                |

When highlighted, use Channel Up/Down, or enter the desired channel number using the Number buttons you wish to edit. The following control items, contained within the Channel Installation menu, will affect the chosen channel.

**CHANNEL** - When CHANNEL is highlighted, use Channel Up/Down, or enter the desired channel number using the Number buttons you wish to edit. **NOTE: A "CHANNEL" CAN BE EITHER AN RF CHANNEL (1-125) OR A VIDEO INPUT (FRONT, AUX, S-VIDEO). RF CHANNELS (1 - 125) CAN SELECT ANTENNA (NORMAL MODE), OR RE-DIRECTED TO (I.E. USED TO SELECT) A VIDEO INPUT. IN OTHER WORDS, CHANNEL 3 COULD SELECT FRONT, CHANNEL 4 COULD SELECT S-VIDEO, ETC. HOWEVER, VIDEO INPUTS CAN SELECT ONLY A VIDEO INPUT (FRONT, AUX, S-VIDEO). VIDEO INPUTS CANNOT BE RE-DIRECTED TO ANTENNA.**

**CHANNEL RING** - When CHANNEL RING is highlighted, press the Cursor Right (+>) or Left (<-) buttons on the remote to choose SAVED (or DELETED). When SAVED is selected, the channel will remain or be added to the TV's program memory. When DELETED is selected, the channel will be dropped from the TV's program memory and will not appear when the TV channels are scanned (using the Channel +/- buttons).

**INPUT** - When INPUT is highlighted, press the Cursor Right (+>) or Left (<-) buttons on the remote to select ANTENNA, FRONT, AUX, S-VIDEO input signal options. The Input control directs the TV to select the specific indicated input whenever this channel is tuned. *See CHANNEL, above.*

**LABEL** - When LABEL is highlighted, press the Cursor Right (+>) button on the remote to select the first character space area. Then press the Cursor Up and Down buttons to scroll through the list of available letter characters/numbers/& symbols provided for your labeling use. Press the Cursor Right (+>) button to highlight the next character space and continue to repeat the process until the complete label or channel title has been entered. The Channel Label will appear in the corner of the TV screen beside the selected channel number.

**VIDEO BLANK** - When VIDEO BLANK is highlighted, press the Cursor Right (+>) or Left (<-) buttons to turn the VIDEO BLANK control ON (or OFF). When ON, no video will be shown when this specific channel is tuned. When OFF, normal viewing of video for this specific channel will take place.

**AUDIO BLANK** - When AUDIO BLANK is highlighted, press the Cursor Right (+>) or Left (<-) buttons to turn the AUDIO BLANK control ON (or OFF). When ON, no sound will be heard through the TV speakers when the channel is tuned. When OFF, normal sound playback will be heard for the selected channel.

**AUTO PROGRAM** - When AUTO PROGRAM is highlighted, press the Cursor Right (+>) or Left (<-) buttons to begin an automatic channel search for all available received signal programs. Any channels found will be SAVED in the TV's program memory.

**CABLE TUNING (OFF / ON)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

Your Philips television can be configured to operate in either Cable TV or broadcast / off-air tuning modes. In other words, the TV must be configured depending upon whether a Cable TV signal or a normal antenna signal is applied to its 75-ohm ANT/CABLE plug.

With the Menu onscreen, press the Menu button repeatedly, or use the Cursor Up and Down buttons, to select CABLE TUNING with the TV's highlight control bar. Press the Cursor Right or Left button on the remote to select:

ON if you DO have Cable TV connected to the TV. Channels 1-125 may then be selected. Or, select OFF if you have an Antenna connected to the TV, and then only channels 2-69 may be selected. Press STATUS/EXIT to remove the on-screen menu.

**BRIGHTNESS, COLOR, CONTRAST, SHARPNESS, TINT**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

Use the cursor-up and cursor-down buttons to select the picture parameter you wish to adjust. Use cursor left (<-) and cursor right (+>) to adjust the picture parameter.

**NOISE REDUCTION (ON/OFF)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

This feature reduces video noise in the displayed picture. Effectively reduces noise while having maximum peaking in the bright parts of the picture. Differs from reducing Sharpness (see **Sharpness**) in that noise is reduced, but picture detail is preserved.

**AVL (ON / OFF)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

Automatic volume leveling restricts the volume variation of audio signals to a relatively small range by boosting low-level signals and reducing louder signals, thus maintaining a consistent volume level. Use cursor left (<-) and cursor right (+>) to turn this feature on and off.



## HOW TO USE THE ON-SCREEN MENU (CONTINUED)

**MIN VOLUME / MAX VOLUME\*** (VOL |||||---- nn) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. Limits the range throughout which the television's volume can be adjusted by a guest mode remote control, or by the television's front panel keyboard (provided the front panel keyboard has not been locked out, see KEYBOARD LOCK).

**VOLUME BAR (ON / OFF)** SETUP ☒ CONSUMER ☒ FEATURES MENU ☐  
 The Volume Bar feature, when set to ON, causes a volume change verification (VOL |||||---- nn, where nn equals some numeric value between 0 - 63) to appear on-screen whenever the volume is adjusted

**SWITCH ON VOLUME\*** (|||||---- 0 - 63 / STANDARD) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. This feature determines the television's volume whenever it is first turned on. A value (0 - 63) can be specified, or default to the television's volume when last turned off (STANDARD).

**SWITCH ON CHANNEL\*** (Ch. 1-125 / FRONT / AUX/S-VIDEO / STANDARD) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. This feature determines the television's channel or input whenever it is first turned on. A channel or input can be specified, or the television can default to the channel or input when last turned off (STANDARD). Also see CHANNEL INSTALL.

**POWER ON\*** (STANDARD / FORCED) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. POWER ON FORCED means that the television will automatically power-up whenever it is supplied with mains power. When POWER ON is set to FORCED, the television will remain powered on long as mains power is applied, and **cannot be turned off by a guest-mode remote, or by the front panel keyboard (even if it is not locked out)**. POWER ON STANDARD means that the television will not automatically power-on when mains power is applied.

**CHANNEL DISPLAY\*** (NUMBER / LABEL / ALL / NONE) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. CHANNEL DISPLAY determines the channel information (NUMBER and / or LABEL), if any, that is displayed briefly whenever the channel is changed. Also see LABEL in CHANNEL INSTALLATION. Also see REMINDER.

**KEYBOARD LOCK\*** (ON / OFF) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. When KEYBOARD LOCK is OFF, the television's front panel keyboard will be accessible, but only to the extent depending upon the MIN VOLUME, MAX VOLUME, POWER ON, and CHANNEL INSTALLATION. KEYBOARD LOCK, when ON, completely disables the television's front panel keyboard (Power, Volume -, Volume +, Channel -, Channel +).

**ESP\*** (OFF / 1 - 99) SETUP ☒ CONSUMER ☐ FEATURES MENU ☐  
 Applicable / available only to the Commercial Mode / setup menu. ESP (Energy Savings Programmability), if not OFF, determines the number of hours (1 - 99) the television will remain powered on after the most recent front panel keyboard or remote control command. **NOTE: If POWER ON (see POWER ON STANDARD / FORCED) is set to FORCED, ESP has no effect.**

**AUDIO / VIDEO MUTE (OFF / BLACK / BLUE)** SETUP ☒ CONSUMER ☒ FEATURES MENU ☐  
 AUDIO / VIDEO MUTE, also known as "A/V muting" eliminates annoying "static" and "snow" when no tuner or external signal is present. When set to BLACK or BLUE, sets the screen set to a solid black or blue display, respectively, and forces audio to be muted, when no valid tuner / video signal is present at the selected source.

**EXTERNAL AUD/VID OUT (OFF / ON)** SETUP ☒ CONSUMER ☒ FEATURES MENU ☐  
 To enable the Monitor Out jacks on the rear jack panel, set EXTERNAL AUD/VID to ON. When the Monitor Out jacks are enabled, they provide the currently-selected source (tuner or video). When EXTERNAL AUD/VID is set to OFF, no signals will be present at the Monitor Out jacks.

\* COMMERCIAL FEATURE



**WELCOME MESSAGE\* (>)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Applicable / available only to the Commercial Mode / setup menu. The Welcome Message feature makes it possible for an on-screen message to appear whenever the television is first turned on. The message will remain until any front-panel keyboard command or remote control command is received. The Welcome Message sub-menu is shown below.

|                 |                 |
|-----------------|-----------------|
| WELCOME MESSAGE |                 |
| MESSAGE         | OFF / ON        |
| LINE 1          | (20 characters) |
| LINE 2          | (20 characters) |
| CLEAR           | >               |
| EXIT            | >               |

Use cursor-up and cursor-down to select the Welcome Message sub-menu item. While Line 1 or Line 2 of the Welcome Message message is highlighted, use cursor-left and cursor-right to enter message-edit mode and position the cursor within the line of the message content. Use cursor-up and cursor-down to change the character at the current position. Press RECALL on the Setup Remote to exit the editing mode and resume Welcome Message sub-menu item selection.

✓ NOTE: WELCOME MESSAGE, when ON, overrides CHANNEL GUIDE at power-on, if the latter has been enabled.

**CHANNEL GUIDE\* (OFF / ON / POWER ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Applicable / available only to the Commercial Mode / setup menu. CHANNEL GUIDE provides an on-screen list of all channels / inputs currently saved in the channel ring (see CHANNEL INSTALL) and their corresponding labels (see CHANNEL INSTALL), for any channels / inputs for which labels have been assigned. When CHANNEL GUIDE is ON, the channel guide appears when a remote control CH GDE command is received. When CHANNEL GUIDE is set to POWER ON, the channel guide appears when the television is first powered on, as well as when a remote control CH GDE command is received. When CHANNEL GUIDE is OFF, the channel guide never appears.

**REMINDER\* (OFF / ON)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☐

The REMINDER feature, when ON, causes the television to constantly display the currently-tuned channel / input and/or its label (if one has been assigned, see CHANNEL INSTALLATION) in the upper-left-hand corner of the screen. When REMINDER is OFF, the channel number / label will only appear briefly immediately after channel / input is selected.

NOTE: The REMINDER feature is available in the television's commercial-mode TV SETUP and CONSUMER menus.

**3-DIGIT ENTRY\* (OFF / ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Applicable / available only to the Commercial Mode / setup menu. Determines whether two or three remote-control digit commands initiate a channel-tune command. When OFF, tuning will occur upon the reception of two remote-control digit commands. When ON, tuning will occur upon the reception of three remote-control digit commands.

\* COMMERCIAL FEATURE

**A/CH A/V SWITCH\* (OFF / ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Available in / applicable to Commercial Setup Menu / Commercial Mode. Alternate channel Audio / Video switching. When A/CH A/V SWITCH is OFF, the remote-control A / CH (alternate channel) command causes the television to select the channel / input that was selected just prior to the currently-selected one. When A/CH A/V SWITCH is ON, the remote-control A / CH (alternate channel) command causes the television to successively switch between all A/V inputs currently saved in the Channel Ring and the television's most-recently-tuned RF channel.

**CC (OFF / CC-1 / CC-2 / CC ON MUTE)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☒

This feature activates closed-captioning mode 1 or mode 2 when CC-1 or CC-2, respectively, is selected. When CC ON MUTE is selected, CC-1 is activated when the television receives a remote-control MUTE command.

**SAVE CC\* (OFF / ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Applicable / available only to the Commercial Mode / setup menu. When SAVE CC is OFF, the television will always power-up with closed-captioning turned off. When SAVE CC is ON, the television "remembers" the most recently-selected closed-captioning mode. In other words, the television will always power-up with closed-captioning set to the mode to which it was last set.

**V-CHIP MENU ITEM \* (OFF / ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Available in / applicable to Commercial Setup Menu / Commercial Mode. Determines whether the V-CHIP SETUP menu item appears when the television is in COMMERCIAL MODE and is displaying the FEATURES MENU (see COMMERCIAL MODE / FEATURES MENU).

**SAVE V-CHIP (OFF / ON)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Available in / applicable to Commercial Setup Menu / Commercial Mode. When SAVE V-CHIP is ON, the television "remembers" the most recently-selected V-CHIP configuration. In other words, the television will power-up with V-CHIP in the state in which it was last configured.

**V-CHIP SETUP (>)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☒

V-Chip setup menu.

**SLEEPTIMER (OFF / 15 / 30 / 45 / 60 / 90 / 120 / 180 / 240)**SETUP ☒ CONSUMER ☒ FEATURES MENU ☒

Determines the amount of time, in minutes, subsequent to the selection of the specified interval, that the television will remain powered-on before automatically powering off.

**SECURITY \* (STANDARD / HIGH)**SETUP ☒ CONSUMER ☐ FEATURES MENU ☐

Available in / applicable to Commercial Setup Menu / Commercial Mode. When SECURITY is set to STANDARD, access to the television's Commercial Setup Menu is possible with a guest-mode remote control, by means of the following remote-control keystrokes: **3 1 9 7 5 3 MUTE**.

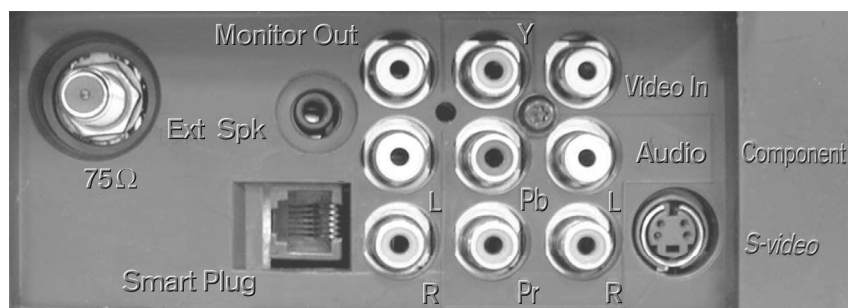
**! NOTE:** The SECURITY item itself does not appear when the Commercial Setup Menu is invoked in this manner. **This feature, as with all Commercial Setup features, can only be changed with a Master Setup Remote.**

\* COMMERCIAL FEATURE

## JACK PANELS

Rear Jack Panel

Front Jack Panel



### Jack Panel Information

- The setting of the Commercial menu item EXT AUD/VID OUT determines whether or not signals will be present at the rear jack panel's Monitor Out jacks. If EXT AUD/VID OUT is set to OFF, no signals will be present at these jacks.
- The rear jack panel's left and right audio inputs are shared among all rear jack-panel external video inputs. Thus, regardless of which rear jack-panel video input is selected (Video, S-Video), the audio signals present at the audio inputs will be heard.

## FACTORY DEFAULT SETTINGS

|                                               |            |
|-----------------------------------------------|------------|
| INITIAL VOLUME SETTING (0 - 63)               | 15         |
| AUX / S-VIDEO AVAILABLE                       | OFF        |
| COMMERCIAL / CONSUMER                         | COMMERCIAL |
| MONITOR-OUT JACKS                             | YES        |
| COMPONENT VIDEO IN                            | YES        |
| LANGUAGE (ENGLISH / FRANCAIS / ESPANOL)       | ENGLISH    |
| CHANNEL INSTALL (> Channel)                   | AUX        |
| CABLE TUNING (ON / OFF)                       | ON         |
| BRIGHTNESS (0 - 63)                           | 28         |
| COLOR (0 - 63)                                | 22         |
| CONTRAST (0 - 63)                             | 57         |
| SHARPNESS (0 - 63)                            | 25         |
| TINT (-31 - +31)                              | 0          |
| NOISE REDUCTION (ON / OFF)                    | OFF        |
| AVL (OFF / ON)                                | OFF        |
| VOLUME BAR (OFF / ON)                         | ON         |
| MIN VOLUME (0 - 63)                           | 0          |
| MAX VOLUME (0 - 63)                           | 63         |
| SWITCH ON VOLUME (STANDARD / 0 - 63)          | STANDARD   |
| SWITCH ON CHANNEL (STD/Front/AUX/TV1-TV125)   | AUX        |
| POWER ON (STANDARD / FORCED)                  | STANDARD   |
| CHANNEL DISPLAY (NONE / NUMBER / LABEL / ALL) | ALL        |
| KEYBOARD LOCK (ON / OFF)                      | OFF        |
| ESP (OFF / 1 - 99)                            | OFF        |
| A/V MUTE (OFF / BLACK / BLUE)                 | OFF        |
| EXT AUD / VID OUT                             | ON         |
| WELCOME MESSAGE (> MESSAGE ON/OFF)            | OFF        |
| CHANNEL GUIDE (OFF / ON / POWER ON)           | OFF        |
| REMINDER (OFF / ON)                           | OFF        |
| THREE DIGIT ENTRY (OFF/ON)                    | OFF        |
| A/CH A/V SWITCH (ON / OFF)                    | OFF        |
| CC (OFF / CC-1 / CC-2 / CC ON MUTE / OFF)     | OFF        |
| SAVE CC (OFF / ON)                            | OFF        |
| V-CHIP MENU ITEM (OFF / ON)                   | OFF        |
| SAVE V-CHIP (OFF / ON)                        | OFF        |
| V-CHIP SETUP (>MASTER DISABLE OFF/ON)         | OFF        |
| SLEEPTIMER (OFF/15-240)                       | OFF        |
| SECURITY (STANDARD / HIGH)                    | STANDARD   |
|                                               |            |

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